

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A channel structuring method of configuring channels wherein transmission signals are modulated by orthogonal frequency division multiplexing comprising n sub-carriers and multiplexed by time division multiplexing to configure downlink channels, said method comprising:

providing time frames by segmenting a communication channel of said n sub carriers at every predetermined interval;

~~a step of~~ selecting from the n sub-carriers, a predetermined number of sub-carriers for insertion of common control channel signals and common pilot signals; and

~~a step of~~ inserting both a common control channel signal and a common pilot signal into the time frames by time division multiplexing with respect to at least one of the selected sub-carriers.

Claim 2 (Currently Amended): A channel structuring method as claimed in claim 1, ~~comprising~~ wherein:

~~a step of providing time frames by segmenting a communication channel of said n subcarriers at every predetermined interval, and~~

~~a step of selecting a predetermined number of subcarriers from said n subcarriers, and periodically inserting the common control channel signal and the common pilot signal~~ are inserted periodically into every time frame of said selected subcarriers.

Claim 3 (Original): A channel structuring method as claimed in claim 2, wherein, in regard to the common control channel signal and the common pilot signal periodically inserted into every time frame of said selected subcarriers, either the common control channel

signal or the common pilot signal, or both thereof, is/are inserted at the same timing as either the common control channel signal or the common pilot signal, or both thereof of other subcarriers.

Claim 4 (Currently Amended): A channel structuring method as claimed in claim 1, ~~comprising:~~ wherein

~~a step of providing time frames by segmenting a communication channel of said n subcarriers at every predetermined interval,~~

~~a step of selecting a predetermined number of subcarriers from said n subcarriers, and inserting the common control channel signal~~ is inserted ~~continuously into the time frame of said selected subcarriers, and a step of selecting a predetermined number of subcarriers from said n subcarriers, and inserting the common pilot signal~~ is inserted ~~periodically into every time frame of said selected subcarriers.~~

Claim 5 (Currently Amended): A channel structuring method as claimed in claim 1, ~~comprising:~~ wherein

~~a step of providing time frames by segmenting a communication channel of said n subcarriers at every predetermined interval,~~

~~a step of selecting a predetermined number of subcarriers from said n subcarriers, and inserting the common pilot signal~~ is inserted ~~continuously into the time frame of said selected subcarrier, and a step of selecting a predetermined number of subcarriers from said n subcarriers, and inserting the common control channel signal~~ is inserted ~~periodically into every time frame of said selected subcarriers.~~

Claim 6 (Cancelled).

Claim 7 (Currently Amended): A channel structuring method as claimed in claim 1, comprising: wherein

~~a step of providing time frames by segmenting a communication channel of said n subcarriers at every predetermined interval,~~

~~a step of selecting a predetermined number of subcarriers from said n subcarriers, and inserting the common control channel signal is inserted continuously into the time frame of said selected subcarriers, and a step of selecting a predetermined number of subcarriers from said n subcarriers, and inserting the common pilot signal is inserted continuously into the time frame of said selected subcarriers.~~

Claim 8 (Currently Amended): A base station in which transmission signals are modulated by orthogonal frequency division multiplexing comprising n sub-carriers and multiplexed by time division multiplexing to configure downlink channels, comprising:

a common channel signal insertion unit selecting, from the n sub-carriers, a predetermined number of sub-carriers for insertion of common control channel signals and inserting a common control channel signals signal into the selected sub-carriers, and

a pilot signal insertion unit selecting, from the n sub-carriers, a predetermined number of sub-carriers for insertion of common pilot signals signal and inserting a common pilot signals into the selected sub-carriers, wherein time frames are provided by segmenting a communication channel of said n subcarriers at every predetermined interval, and both a common control channel signal and a common pilot signal are inserted into the time frames by time division multiplexing with respect to at least one of the selected sub-carriers.

Claim 9 (Currently Amended): A base station as claimed in claim 8, wherein
~~time frames are provided by segmenting a communication channel of said n~~
~~subcarriers at every predetermined interval, and~~
the said common control channel signal and the common pilot signal are inserted
~~insertion unit selects a predetermined number of subcarriers from said n subcarriers, and~~
~~inserts the common control channel signal~~ periodically into every time frame of said selected
subcarriers.

Claim 10 (Currently Amended): A base station as claimed in claim 8, wherein
~~time frames are provided by segmenting a communication channel of said n~~
~~subcarriers at every predetermined interval, and~~
said common pilot signal insertion unit selects a predetermined number of subcarriers
from said n subcarriers, and inserts the common pilot signal periodically into every time
frame of said selected subcarriers.

Claim 11 (Previously Presented): A base station as claimed in claim 9, wherein
said common pilot signal insertion unit selects a predetermined number of subcarriers
from said n subcarriers and inserting the common pilot periodically into every time frame of
said selected subcarriers, and
said common control channel signal insertion unit and said common pilot signal
insertion unit insert the common control channel signal and the common pilot signal,
respectively, into said selected subcarriers such that a timing of the insertion of either the
common control channel signal or the common pilot signal, or both, are same as the timing of
either the common control channel signal or the common pilot signal, or both, of other
subcarriers.

Claim 12 (Currently Amended): A base station as claimed in claim 8, wherein
~~time frames are provided by segmenting a communication channel of said n~~
~~subcarriers at every predetermined interval,~~

~~said common control channel signal insertion unit selects a predetermined number of~~
~~subcarriers from said n subcarriers, and inserts the common control channel signal is inserted~~
continuously into every time frame of said selected subcarriers, and

~~said common pilot signal insertion unit selects a predetermined number of subcarriers~~
~~from said n subcarriers, and inserts the common pilot signal is inserted periodically into every~~
time frame of said selected subcarriers.

Claim 13 (Currently Amended): A base station as claimed in claim 8, wherein
~~time frames segmented in the communication channel of said n subcarriers at every~~
~~predetermined interval are set up,~~

~~said common pilot signal insertion unit selects a predetermined number of subcarriers~~
~~from said n subcarriers, and inserts the common pilot signal is inserted continuously into~~
every time frame of said selected subcarriers, and

~~said common control channel signal insertion unit selects a predetermined number of~~
~~subcarriers from said n subcarriers, and inserts the common control channel signal is inserted~~
periodically into every time frame of sale selected subcarriers.

Claim 14 (Cancelled).

Claim 15 (Currently Amended): A base station as claimed in claim 8, wherein
~~time frames are provided by segmenting a communication channel of said n~~
~~subcarriers at every predetermined interval, and~~

~~said common control channel signal insertion unit selects a predetermined number of subcarriers from said n subcarriers, and inserts the common control channel signal~~ is inserted continuously into every time frame of said selected subcarriers, and

~~said common pilot signal insertion unit selects a predetermined number of subcarriers from said n subcarriers, and inserts the common pilot signal~~ is inserted continuously into every time frame of said selected subcarriers.

Claim 16 (Cancelled).

Claim 17 (Currently Amended): A base station as claimed in claim 9, wherein
~~time frames are provided by segmenting a communication channel of said n subcarriers at every predetermined interval, and~~

said common pilot signal insertion unit selects a predetermined number of subcarriers from said n subcarriers, and inserts the common pilot signal periodically into every time frame of said selected subcarriers.

Claim 18 (Cancelled).